

Karnal Bunt Survey Work Plan January 1, 2018 – December 31, 2018

Cooperator:	Kansas Department of Agriculture		
State:	Kansas		
Project:	Karnal Bunt		
Project funding source:	Other Line Item Pest		
Project Coordinator:	Laurinda Ramonda		
Agreement Number	USDA-APHIS-10025-PPQFO000-18-0089		
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This Work Plan reflects a cooperative relationship between the Kansas Department of Agriculture (KDA) (the Cooperator) and the United States Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ). It outlines the mission-related goals, objectives, and anticipated accomplishments as well as the approach for conducting a Karnal Bunt survey and control program and the related roles and responsibilities of the Kansas Department of Agriculture and USDA-APHIS-PPQ as negotiated.

I) OBJECTIVES AND NEED FOR ASSISTANCE

The objective of this project is to ensure the ability to export Kansas wheat to foreign customers by collecting Kansas wheat grain samples as part of the National Karnal Bunt Survey (*Tilletia indica*). This survey will also provide information to the IPHIS database and provide pest freedom assurance to our customers.

This is a national survey and benefits the nation in the exportation of wheat. This survey cannot be implemented without the funds provided by USDA-APHIS-PPQ.

II) RESULTS OR BENEFITS EXPECTED

The Cooperator seeks to conduct a program which is expected to result in:

- The ability to continue to export Kansas grown wheat for the success of the states' wheat industry.
- Provide survey data for karnal bunt in Kansas keeping the markets open for Kansas wheat producers.
- Keep karnal bunt from becoming established in Kansas.

- Provide early detection and a rapid response for the most cost effective means to protect the vital wheat industry.
- Provide additional geographic assessment from data gathered.

III) APPROACH

What is the plan of action or approach to the work (for bundled survey work plans please include a separate paragraph for each survey detailing survey type, targets, and number of locations)?

Wheat samples will be taken on a 3 year rotation in counties with over 1 million bushels of wheat from grain storage facilities. Every 3 years samples will have been taken from the wheat producing counties of the state. Some eastern counties will not be sampled due to very little wheat being planted in that part of the state. Harvest acreage numbers for the year will be rechecked every 3 years. The bushel amounts for wheat were re-averaged for the years 2010-2014 for this years' survey. There is a one 4 pound sample taken for 1 million bushels per county.

West 3rd year (2018)	
County	# samples
CHEYENNE	5
DECATUR	4
FINNEY	4
GOVE	4
GRAHAM	3
GRANT	2
GRAY	4
GREELEY	4
HAMILTON	2
HASKELL	2
KEARNY	3
LANE	3
LOGAN	4
MEADE	2
MORTON	2
NESS	4
NORTON	2
RAWLINS	5
SCOTT	4
SEWARD	1
SHERIDAN	3
SHERMAN	6

Central 2nd year (2017)	
County	# samples
BARBER	3
BARTON	5
CLARK	1
COMANCHE	3
EDWARDS	3
ELLIS	3
ELLSWORTH	3
FORD	5
HODGEMAN	4
JEWELL	5
KIOWA	2
LINCOLN	3
MITCHELL	6
OSBORNE	4
PAWNEE	4
PHILLIPS	2
PRATT	6
RENO	8
RICE	7
ROOKS	3
RUSH	3
RUSSELL	3

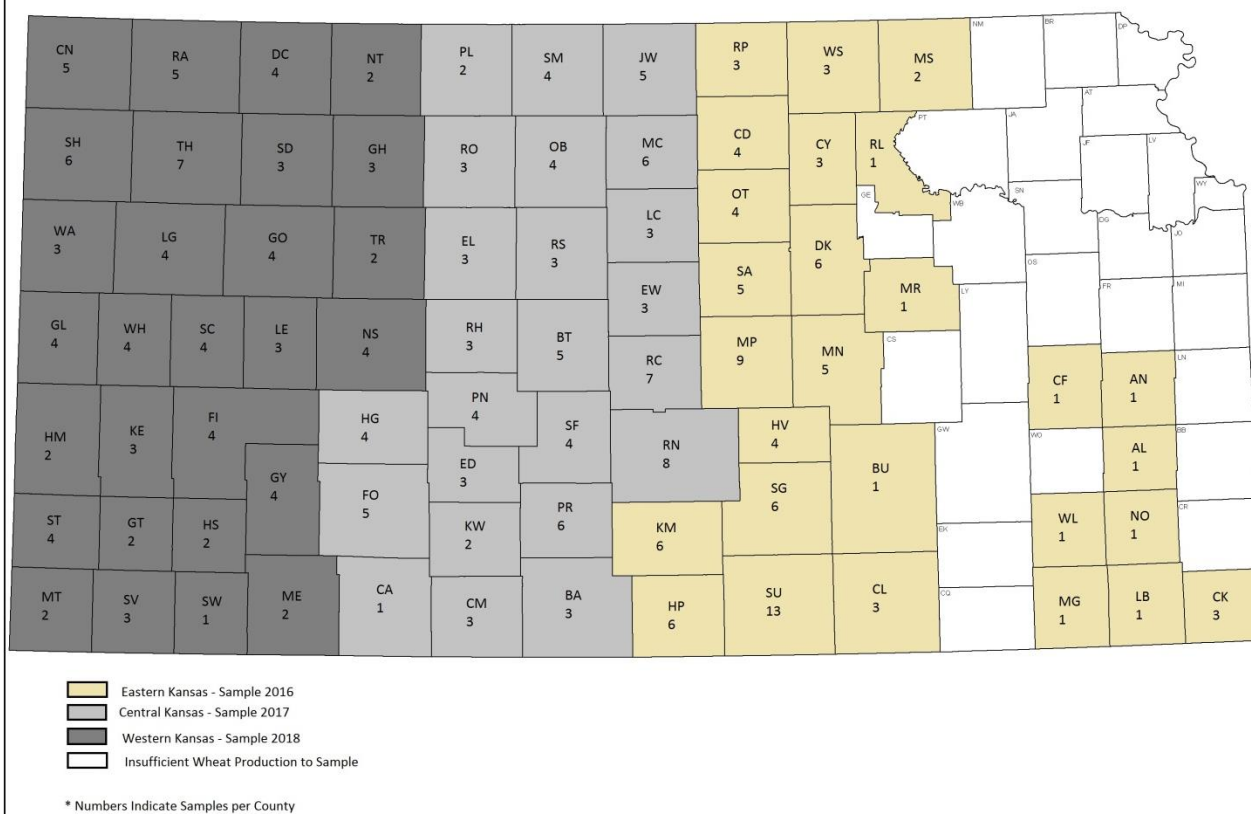
East 1st year (2016)	
County	# samples
ALLEN	1
ANDERSON	1
BUTLER	1
CHEROKEE	3
CLAY	3
CLOUD	4
COFFEY	1
COWLEY	3
DICKINSON	6
HARPER	6
HARVEY	4
KINGMAN	6
LABETTE	1
MARION	5
MARSHALL	2
MCPHERSON	9
MONTGOMERY	1
MORRIS	1
NEOSHO	1
OTTAWA	4
REPUBLIC	3
RILEY	1

STANTON	4
STEVENS	3
THOMAS	7
TREGO	2
WALLACE	3
WICHITA	4
Total	96

SMITH	4
STAFFORD	4
Total	94

SALINE	5
SEDGWICK	6
SUMNER	13
WASHINGTON	3
WILSON	1
Total	96

Karnal Bunt Sampling Strategy



Kansas will take samples using national survey protocols. Samples will be forwarded to USDA-APHIS-PPQ in Phoenix, Arizona for processing and analysis. Sampling will be done by the Kansas Department of Agriculture and will begin at the onset of harvest and be completed within three weeks after harvests end. Costs are explained in the financial plan.

Scientific Name	Common Name	Survey Method	Trap	Lure
<i>Tilletia indica</i>	Karnal bunt	Soil Sampling	N/A	N/A

A. The Cooperator will:

1. By function, what work is to be accomplished?

- Sample using national survey protocols.
- Sample using KDA staff.
- Send samples to USDA-APHIS-PPQ, Phoenix, Arizona laboratory to be analyzed.
- Begin sampling at onset of harvest and complete sampling by three weeks after harvest ends.

2. What is the quantitative projection of accomplishments to be achieved?

a. By activity or function, what are the anticipated accomplishments by month, quarter, or other specified intervals?

- Sampling, following the preceding table, will begin at the onset of harvest and be completed within three weeks after harvests end.
- Wheat samples are sent to Phoenix, Arizona when boxes are full or when sampling is complete.
- Karnal bunt survey data will be entered into IPHIS and NAPIS within 2 weeks when results are received from the Phoenix, Arizona lab or within 48 hours of a positive identification.

b. What criteria will be used to evaluate the project? What are the anticipated results and successes?

- All data collected and entered into the IPHIS and NAPIS database.
- State CAPS and KDA meetings to keep updated on issues.
- Wheat is being exported successfully to countries with restrictions.

3. What numbers and types of personnel will be needed and what will they be doing?

- KDA staff will collect wheat samples from grain elevators.
- KDA staff will be shipping samples to Phoenix, Arizona lab.

4. What equipment will be needed to perform the work? Include major items of equipment with a value of \$5,000 or more.

- a. What equipment will be provided by the cooperator?** None planned
- b. What equipment will be requested from APHIS on loan?** None planned
- c. What equipment will be purchased in whole or in part with APHIS funds?** None planned
- d. How will the equipment be used?** None planned

- e. **What is the proposed method of disposition of the equipment upon termination of the agreement/project?** None planned

5. Identify information technology equipment, e.g., computers, and their ancillary components.

- Provided by KDA, office space with associated services and utilities, computers and other office equipment for the use of Cooperator personnel. These include computer with internet service.

6. What supplies will be needed to perform the work?

- Sample bottles, paper bags, plastic bags, tape, boxes, cups and office supplies (i.e. pens, rubber bands, markers) are required for sampling.
- Fuel for rental vehicle

a. **What supplies will be provided by the Cooperator?**

- None planned

b. **What supplies will be requested from APHIS (list supplies)?**

- 8 oz. sample bottles
- Paper bags
- Plastic bag
- Twist tie

c. **What supplies will be purchased in whole or in part with APHIS funds?**

- Tape, shipping boxes and office supplies (i.e. pens, markers) used for sampling.
- Fuel for rental vehicles

d. **How will the supplies be used?**

- Sampling and shipping samples to lab.

e. **What is the proposed method of disposition of the supplies with a cumulative value over \$5,000 upon termination of the agreement/project?**

- None planned

7. What procurements will be made in support of the funded project and what is the method of procurement (e.g., lease, purchase)?

- Tape, shipping boxes and office supplies (i.e. pens, markers) used for sampling.
- The Fiscal Department at the Kansas Department of Agriculture will provide contracts.
- Most procurements will be made by purchase orders.

- Some procurements will be made by reimbursable personal purchase.

8. What are the travel needs for the project?

a. Is there any local travel to daily work sites? Indicate rates and total costs in the Financial Plan.

- Travel will be required to survey sites by use of a rental vehicle. A rental vehicle is used because of a shortage of state vehicles.
- The KDA Plant Protection and Weed Control Program Manager is the approving official.
- Payments are by purchase order.
- Some procurements will be made by reimbursable personal purchase.
- Costs are included in the financial plan.

b. What extended or overnight travel will be performed (number of trips, their purpose, and approximate dates)? Indicate rates and total cost in the Financial Plan.

- Lodging will be required for longer distance sampling.
- Travel will occur with the onset of wheat harvest until sampling complete.
- The KDA Plant Protection and Weed Control Program Manager is the approving official.
- Costs are included in the financial plan.

9. Reports:

Submit all reports to the APHIS Authorized Department Officer's Designated Representative (ADODR). Reports include:

- Narrative accomplishment reports in the frequency and time frame specified in the Notice of Award, Article 4.
- Federal Financial Reports, SF-425 in the frequency and time frame specified in the Notice of Award, Article 4.

10. Are there any other contributing parties who will be working on the project?

a. If so, list other participating institutions/agencies who will work on the project:

- KDA
- USDA-APHIS-PPQ
- County grain elevators

b. Describe the nature of their effort:

- KDA – survey and data collection.
- USDA-APHIS-PPQ – wheat diagnostics and pest identification.
- County grain elevators – providing wheat samples

B. APHIS Will:

1. Outline the Agency's (USDA APHIS PPQ) substantial involvement.

a. Include any significant Agency collaboration and participation

- Provide any new information that becomes available on karnal bunt.
- Provide funds to the Cooperator to cover costs outlined in the Financial Plan.
- Make identification at the Phoenix, Arizona Lab.

b. Project oversight and performance management

- Review of data results submitted to the NAPIS database.
- Submit accomplishment reports to ADODR.

c. Provide the equipment requested by the cooperator in 4.b. & c.

- None planned

d. Provide the supplies requested by the cooperator in 6.b. & c.

- 8 oz. sample bottles
- Paper bags
- Plastic bag
- Twist tie
- Tape, shipping boxes and office supplies (i.e. pens, markers) used for sampling.
- Fuel for rental vehicles

IV) GEOGRAPHIC LOCATION OF PROJECT

A. Is the project statewide or in specific counties? [List the names of ALL counties and tribal areas that apply (denote counties for each separate survey if this is a bundled survey work plan)].

In 2018, the western counties of Kansas will have wheat sampled: Cheyenne, Decatur, Finney, Gove, Graham, Grant, Gray, Greeley, Hamilton, Haskell, Kearny, Lane, Logan, Meade, Morton, Ness, Norton, Rawlins, Scott, Seward, Sheridan, Sherman, Stanton, Stevens, Thomas, Trego, Wallace, Wichita

B. What type of terrain (e.g., cropland, rangeland, woodland) will be involved in the project?

County grain cooperatives and storage facilities.

C. Are there any unusual geographic features which may have an impact on the project? (list all that apply)

Weather conditions and cooperation of grain cooperators to acquire wheat samples.

V) DATA COLLECTION AND MAINTENANCE

Each State is responsible for entering complete, accurate, and timely pest survey data using approved protocol and methodology. All survey data from Pest Detection funded CAPS surveys will be entered into the National Agricultural Pest Information System (NAPIS). NAPIS is the final repository for all Pest Detection survey data.

- First record for the State and/or County will be entered within **48 hours** of confirmation of identification by a qualified identifier.
- All other required records, both positive and negative survey data, must be entered **within two weeks** of confirmation.
- All records are to be entered into the NAPIS database by **December 31st** of the year of survey so these data can be included in the yearly Plant Board Report.

VI) TAXONOMIC SUPPORT

A. Person or Institution that will screen targets (Name & Contact Information) and level of screening/identification.

OR

B. ☒ Request for taxonomic support.

Gary Russell
USDA APHIS PPQ
3640 East Wier Ave.
Phoenix, AZ 85040
602-431-3202

VII) SURVEY SUMMARY FORM

A Survey Summary Form is not required for this survey.

VIII) SIGNATURES

ROAR

Date

ADODR

Date

Detailed Financial Plan

PROJECT: Karnal Bunt

COOPERATOR NAME: Kansas Department of Agriculture

AGREEMENT NUMBER: USDA-APHIS-10025-PPQFO000-18-0089

TIME PERIOD: January 1, 2018 – December 31, 2018

Financial Plan must match the SF-424A, Section B, Budget Categories

ITEM			APHIS FUNDS	COOPERATOR FUNDS (Show even if zero)	TOTAL
PERSONNEL:	Hours	Salary			
KDA staff - Paid by APHIS funds	100	\$25	\$2,500		\$0
Subtotal			\$2,500	\$0	\$0
FRINGE BENEFITS:	Percent (enter as decimal not %)				
KDA staff - Paid by APHIS funds - 33%	0.33		\$825		\$0
Subtotal			\$825	\$0	\$0
TRAVEL:	Cost	Length of time			
Lodging 10 nights @ \$85/night	\$85	10	\$850	\$0	\$850
Meals @ \$51/day x 20 days	51	20	\$1,020	\$0	\$1,020
Subtotal			\$1,870	\$0	\$1,870
EQUIPMENT:	Cost				
			\$0		\$0
Subtotal			\$0	\$0	\$0
SUPPLIES:	Cost	Length of time			
Shipping boxes, tape, office supplies	\$80		\$80		\$80
Mileage 1,737 miles x 0.54 per mile-for state vehicles**	\$938		\$938		\$938
Karnal Bunt sampling kits provided by USDA	\$0		\$0		\$0
Subtotal			\$1,018	\$0	\$1,018
CONTRACTUAL:	Cost	Length of time			
Subtotal			\$0	\$0	\$0

OTHER:	Cost				
Subtotal			\$0	\$0	\$0
TOTAL DIRECT COSTS			\$6,213	\$0	\$2,888
INDIRECT COSTS **	Percent (enter as decimal not %)				
(18.1% on Total Direct Cost of salary and fringe benefits)*	0.181		\$602	\$0	\$602
TOTAL			\$6,815	\$0	\$6,815
COST SHARE INFORMATION (Percent)			100%	0%	

* Kansas' Negotiated Cost Rate (Salary + Fringe Benefits x %=Indirect Cost)